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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,221 09/26/2001		09/26/2001	Edward V. Thomas	SD6750/95599	1857
20567	7590	11/27/2006		EXAMINER	
SANDIA	CORPOR	RATION	CERVETTI, DAVID GARCIA		
P O BOX MS-0161	5800		ART UNIT	PAPER NUMBER	
ALBUQU	ERQUE, 1	NM 87185-0161	2136		
			,	DATE MAIL ED. 11/27/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

r		Application N	o. A	pplicant(s)				
		09/964,221	ті	THOMAS ET AL.				
	Office Action Summary	Examiner	A	rt Unit				
		David G. Cerve	etti 2	136				
Period fo	The MAILING DATE of this communication	on appears on the cov	er sheet with the corr	espondence address				
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR INCHEVER IS LONGER, FROM THE MAILING IN THE MAILING	NG DATE OF THIS C CFR 1.136(a). In no event, ho tion. period will apply and will expi y statute, cause the application	COMMUNICATION. Invever, may a reply be timely for SIX (6) MONTHS from the reply to become ABANDONED (3)	filed mailing date of this communication. 35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed on	15 Sentember 2006						
·	Responsive to communication(s) filed on <u>15 September 2006</u> . This action is FINAL. 2b)⊠ This action is non-final.							
3)	/ -			cution as to the merits is				
٧,۵	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dienoeiti	on of Claims			J. J				
· _		- 4b!:4:						
•	Claim(s) <u>2-22 and 42-47</u> is/are pending i	• •						
	4a) Of the above claim(s) is/are will Claim(s) is/are allowed.	itildiawii iloni conside	ration.					
·	· · · ———							
	Claim(s) 2-22 and 42-47 is/are rejected.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are objected to.	and/or alastian requir	-amant	•				
ال(٥	Claim(s) are subject to restriction	and/or election requi	ement.					
Applicati	on Papers			•				
9)	The specification is objected to by the Ex	aminer.						
10)🛛	10)⊠ The drawing(s) filed on <u>26 September 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
	Applicant may not request that any objection	to the drawing(s) be he	d in abeyance. See 37	['] CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* 5	* See the attached detailed Office action for a list of the certified copies not received.							
•	•							
Attachmen	tie)							
_	e of References Cited (PTO-892)	4) [Interview Summary (PT	'O-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-9		Paper No(s)/Mail Date.	·				
	mation Disclosure Statement(s) (PTO-1449 or PTO/		Notice of Informal Pater	nt Application (PTO-152)				
Pape	r No(s)/Mail Date	6) [Other:					

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DETAILED ACTION

1. Applicant's arguments filed September 15, 2006, have been fully considered.

2. Claims 2-22 and 42-47 are pending and have been examined. Claims 1 and 23-41 have been cancelled.

Response to Amendment

3. Applicant's arguments with respect to the prior art have been considered but are moot in view of the new ground(s) of rejection.

Continued Examination Under 37 CFR 1.114

4. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Claim Objections

5. Claim 42 is objected to because of the following informalities: "e) if D <", perhaps "h)" was intended. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 2-3, 5, 9,17, 20, 22, 43-45 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claims 2-3, 5, 9, 17, 20, and 22 recite the limitation "the method of claim 42". There is insufficient antecedent basis for this limitation in the claims.

Claims 43-45 recite the limitation "Y_j(reference)" and "U_j(reference)". There is insufficient antecedent basis for this limitation in the claims.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 2-22 and 42-47 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 42 does not produce a tangible result (deciding) and the result of the comparison is not stored, displayed, transmitted, or output. Furthermore, claims 42-47 recite a mathematical algorithm and are therefore non-statutory (see MPEP 2106.02 Mathematical Algorithms).

Claims 2-22 are rejected based on their dependency, directly or indirectly, from independent claim 42.

10. To expedite a complete examination of the application, the claims rejected under 35 U.S.C. 101 (non-statutory) above are further rejected as set forth below in anticipation of applicant amending these claims to place them within the four statutory categories of invention.

Allowable Subject Matter

- 11. Claims 2-22 and 42-47 would be allowable.
- 12. The following is an examiner's statement of reasons for allowance: the prior art of record does not expressly disclose or fairly suggest the claimed limitations found in

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independent claim 42, e) calculating an unencrypted Euclidean distance metric, E, between unencrypted new and reference signals, Y_{new} and Y_{ref}; f) calculating an encrypted Euclidean distance metric, D, between the encrypted new and reference

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measurements, U_{new} and U_{ref} ; g) comparing the encrypted Euclidean distance metric,

D, to a critical value, D_{crit}, and; e) if D < D_{crit}, then deciding that the item is authentic;

wherein the transformation has the property that the unencrypted Euclidean

distance metric, E, is equal to the encrypted Euclidean distance metric, D.

- 13. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 14. Claim 42 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action.
- 15. Claims 2-3, 5, 9,17, 20, 22, 43-45 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 16. As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent Number 5,454,040 to Russell and US Patent Number

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6,741,636 to Lender disclose arranging data to appear as white noise to render it indistinguishable from white noise. US Patent Number 5,394,471 to Ganesan et al. disclose using conventional statistical techniques relating to validating data.

- 18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David G. Cervetti whose telephone number is (571) 272-5861. The examiner can normally be reached on Monday-Friday 7:00 am 5:00 pm, off on Wednesday.
- 19. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on (571) 272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 20. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DGC

NASSER MOAZZAMI BUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100

11/21/06